

CalFed Water Quality Actions

- 1. Agricultural Drainage*
- 2. Urban & Industrial Runoff*

Proposed Actions

- *incentives and/or enforcement of existing regulations*
- *incentives for pesticide users to increase implementation of BMPs, including IPM*

Four Questions

- *What is the current position of the industry in relation to BMPs and IPM?*
- *Which parameters of concern will BMPs and IPM affect? By how much?*
- *What types of BMPs and IPM do we recommend?*
- *Are there more effective alternatives?*

Industry Position - BMPs & IPM

- *Fully supportive of BMPs & IPM*
- *Individual companies*
- *Western Crop Protection Association*
- *American Crop Protection Assoc.*

Why Does Industry Support?

- *Part of a comprehensive approach to chemical management*
- *Economical and environmentally sound farm management*
- *Minimize adverse environmental effects*
- *Maximize beneficial effects of pesticides*
- *BMPs include IPM*

How Does Industry Support?

- *“Best Management Practices for Protecting Water Quality in California”*
 - *Novartis Crop Protection*
 - *DowElanco*
 - *CA Agricultural Production Consultants Association*
 - *CA Dept. of Pesticide Regulation*
 - *Makhteshim-Agan*

“Best Management Practices for Protecting Water Quality in California”

- *diazinon, chlorpyrifos*
- *dormant orchard sprays*
- *15,000 copies printed*
- *12,000 distributed*
 - *all PCAs in tree market*
 - *seminars & one-on-one meetings*
- *1500 tree growers*

“IPM - The Quiet Evolution”

- *Agriculture Council of CA.*
- *Blue Anchor*
- *CAPCA*
- *CA Assoc. of Nurserymen*
- *CA Chamber of Commerce*
- *CA Cotton Growers*
- *CA Dept. of Food & Ag*
- *CA League of Food Processors*
- *CA Seed Assoc.*
- *CA Strawberry Commission*
- *Nisei Farmers League*
- *Processed Tomato Foundation*
- *Sun-Maid Growers of CA*
- *U.S. Hop Industry*
- *Western Growers Assoc.*

“BMP Research & Education”

■ *Proposal to CalFed*

- *Early outreach*

- *Train the trainer / influencer*

- *R & D support*

- *Educational materials*

- *Public / User outreach*

■ *Farm Advisor Training Seminar*

- *UC Statewide IPM Project*

Examples

■ *BMP Programs*

- *Rice Pesticide Management Program*
- *Orchard Dormant Spray Program*

■ *IPM Programs*

- *Navel Orangeworm - almonds*
- *Predator snails - citrus*
- *California Cotton Manager - cotton*

Parameters of Concern

- Carbofuran
- Chlordane
- Chlordane
- Chlorpyrifos
- DDT
- Diazinon
- PCBs
- Toxophene

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4/1/97

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Our Concern

- *Identification of these parameters was not a comprehensive scientific process*
- *not a specific chemical problem*
- *It's an agronomic practice / management problem*

What's the problem?

■ Not Diazinon / Chlorpyrifos

■ Dormant Spray

- Lost parathion
- switched to diazinon & chlorpyrifos
- ban them & switch to???

■ Chasing our tail

BMP Effect on Parameters

- *Realistic expectations*
- *What is the real issue?*
 - *biological / environmental*
 - *social / political*
- *How do we measure risk?*
- *How do we measure success?*

What types of BMPs?

- *Open mind*
- *R & D - basic & applied*
- *Don't mandate specific BMPs*
 - *each crop is different*
 - *each geographic location is different*
 - *farming techniques are different*
- *Don't tie the grower's hands*

What is most effective?

■ *Phased approach*

- *early outreach w/ current knowledge*
- *R & D program*
- *monitoring and adapting*
- *continuous improvement*
- *outreach*
 - *influencers*
 - *users*

What is most effective?

■ *Build awareness*

- *what is the problem?*
- *what can and should be done*

■ *Develop sensitivity*

- *environment - a bottom line issue*
- *economics*

Summary

- Industry Supports BMPs & IPM
- BMPs & IPM are tools in a comprehensive management plan
- Research & Development
- Education & Outreach